

AMENDMENTS TO THE CLAIMS

This listing will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A method of producing ~~a salt of dinitramidic acid~~ guanylurea dinitramide, comprising (1) nitration of an initial compound with a nitrating acid mixture, the nitrating acid mixture comprising sulphuric acid and nitric acid, to form dinitramidic acid in an acidic reaction mixture, (2) adding a guanylurea ion to the acidic reaction mixture, forming the salt of dinitramidic acid and a positive ion which forms an ion pair complex with dinitramide ion, (3) precipitating guanylurea dinitramide ~~the salt of dinitramidic acid~~ from the acidic reaction mixture, which is acidic at the time of precipitation, ~~and (4) separating the salt of dinitramidic acid from the reaction mixture.~~

2-15. (Cancelled)

16. (New) The method of claim 1, wherein the guanylurea ion is added by cyanoguanidine being reacted by hydrolysis with the acid reaction mixture to form protonated guanylurea *in situ*.

17. (New) The method of claim 16, wherein the cyanoguanidine is added to the acid reaction mixture as an aqueous slurry of cyanoguanidine.

18. (New) The method of claim 1, wherein guanylurea dinitramide is separated from the acid reaction mixture.

19. (New) The method of claim 16, wherein guanylurea dinitramide is separated from the acid reaction mixture.

20. (New) The method of claim 17, wherein guanylurea dinitramide is separated from the acid reaction mixture.

21. (New) A method of producing a salt of dinitramidic acid comprising:

(a) nitration of ammonium sulfamate with a mixture of HNO_3 and H_2SO_4 to form a dinitramide ion in an acid reaction mixture;

(b) mixing and reacting cyanoguanidine with the acid reaction mixture from step (a) to form a guanylurea ion in the acid reaction mixture to form a precipitating salt of dinitramidic acid, guanylurea dinitramide, in the acid reaction mixture and;

(c) separating the precipitated salt of dinitramidic acid from step (b) from the acid reaction mixture

22. (New) A method of producing a salt of dinitramidic acid comprising:

(a) nitration of ammonium sulfamate with a mixture of HNO_3 and H_2SO_4 to form dinitramide ion in an acid reaction mixture;

(b) mixing guanylhurea nitrate with the acid reaction mixture from step (a) to form a precipitate salt of dinitramidic acid, guanylhurea dinitramide, in the reaction mixture and;

(c) separating the precipitated salt of dinitramidic acid from step (b) from the acid reaction mixture

23. (New) The method of claim 1, wherein the guanylhurea dinitramide is used as a starting material for the preparation of other dinitramide salts.

24. (New) The method of claim 16, wherein the guanylhurea dinitramide is used as a starting material for the preparation of other dinitramide salts.

25. (New) The method of claim 17, wherein the guanylhurea dinitramide is used as a starting material for the preparation of other dinitramide salts.

26. (New) The method of claim 19, wherein the guanylhurea dinitramide is used as a starting material for the preparation of other dinitramide salts.

27. (New) The method of claim 21, wherein the guanylhurea dinitramide is used as a starting material for the preparation of other dinitramide salts.

28. (New) The method of claim 1, wherein the added guanylhurea ion is recovered and is re-used in the production of dinitramide salts.

29. (New) The method of claim 16, wherein the added guanylhurea ion is recovered and is re-used in the production of dinitramide salts.

30. (New) The method of claim 17, wherein the added guanylhurea ion is recovered and is re-used in the production of dinitramide salts.

31. (New) The method of claim 19, wherein the added guany lurea ion is recovered and is re-used in the production of dinitramide salts.

32. (New) The method of claim 21, wherein the added guany lurea ion is recovered and is re-used in the production of dinitramide salts.

33. (New) The method of claim 23, wherein the added guany lurea ion is recovered and is re-used in the production of dinitramide salts.

34. (New) The method of claim 1, wherein the initial compound is ammonium sulfamate.